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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			PHAN, TRI H	
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Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)				
Office Assistant Community	09/787,137	RUFFIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tri H. Phan	2661				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status	_					
1) Responsive to communication(s) filed on 23 No.)⊠ Responsive to communication(s) filed on <u>23 November 2004</u> .					
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL . 2b) This action is non-final.					
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.	☑ Claim(s) <u>1-5</u> is/are rejected.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	г.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
 Copies of the certified copies of the prior application from the International Bureau 	·	d in this National Stage				
* See the attached detailed Office action for a list of the certified copies not received.						
	,					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		te atent Application (PTO-152)				
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Response to Amendment/Arguments

1. This Office Action is in response to the Response/Amendment filed on November 23rd, 2004. New claims 4-5 are added. Claims 1-5 are now pending in the application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Gilbert et al. (U.S.5,530,848; hereafter referred as Gilbert).
- In regard to claim 1, **Gilbert** discloses in Figs. 1-4 and in the respective portions of the specification about the system and method for implementing the interface ("XA/RO interface"; For example see Fig. 1; col. 2, lines 21-38; col. 3, lines 24-26) between the external process and transaction processing system ("transactional system"; col. 1, lines 9-29); wherein the input receive subsystem accepts input messages from external processes such as external computer systems, CICS regions, batch jobs, etc. ("the set of transaction initiators and consumers connected by the communication channel"; For example see Figs. 1 and 3; col. 3, lines 40-48; col. 8, lines 39-41; col. 9, lines 33-44; wherein, it is inherent that the external application

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connects to the interface system through the "communication channel" as disclosed in col. 9, lines 33-44; col. 12, lines 12-19), the trigger subsystem interrogates the log file (For example see Figs. 1 and 2; col. 3, lines 46-60; col. 8, lines 26-32; col. 9, lines 45-54) when the input message is available for delivery to the transaction processing system for process ("enable the transactional system"; For example see Figs. 1 and 2; col. 4, lines 5-21); where the control records stored in the log file database are created, updated or deleted ("perform transactional operations on data stored in logging service"; For example see Figs. 1, 3, 8) based on the status or flag as specified in step 206 in Fig. 2; col.8, lines 47-50; for the "logging service" as defined in col. 2, lines 8-14; via other subsystems such as status subsystem, acknowledgement subsystem, monitor subsystem, communications monitor subsystem, and communications subsystem (For example see Fig. 1; col. 4, line 22 through col. 5, line 12; col. 8, line 47 through col. 9, line 3) under the control of the transaction processing system (For example see Fig. 1; col. 9, lines 22-26).

- Regarding claim 2, Gilbert further discloses wherein the input receive subsystem accepts input messages from external processes such as external computer systems, CICS regions, batch jobs, etc. (For example see Fig. 3; col. 3, lines 40-48; col. 7, lines 29-31) via a plurality of input receive modules ("plurality of communication channels"; For example see Fig. 3; col. 9, lines 33-44; col. 12, lines 12-19; wherein multiple external applications connect to the interface system through a plurality of input receive modules within the input receive subsystem, e.g. the "communication channels", as disclosed in col. 9, lines 33-44) in the transactional communication system.

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- In regard to claim 4, Gilbert further discloses about the input receive modules within the input receive subsystem of the interface system are employed to interface to multiple external applications for receiving input messages ("XA/XO interface"; For example see Fig. 1; col. 9, lines 33-44); wherein the communications monitor subsystem monitors ("monitor"; For example see Figs. 1, 8) records and manages multiple occurrences of the outbound communication process (For example see Figs. 14-16, 8; col. 8; lines 59-65; col. 11, lines 35-45), ("apply correct terminal of the transaction operation to the logged data"; For example see Figs. 7A-B; col. 18, lines 49-62; wherein the unique user ID is created for each message for the system look up as disclosed in col. 1, lines 30-39) and provides the confirming or aborting message ("confirm or cancel changes"; For example see Figs. 1, 4; Abstract; col. 2, line 65 through col. 3, line 20; col. 12, lines 27-31; col. 17, lines 28-44) to the communications log service (For example see Figs. 1, 3).

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gilbert et al. (U.S.5,530,848) in view of Ngai et al. (U.S.5,850,507; hereafter referred as Ngai).

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- In regard to claim 3, Gilbert discloses all the subject matter of the claimed invention as discussed in part 3 above of this Office action, about the system and method for implementing the interface ("XA/RO interface") between the external process and transaction processing system ("transactional system"); wherein the input receive subsystem accepts input messages from external processes such as external computer systems, CICS regions, batch jobs, etc. ("connecting the set of transaction initiators and consumers") via a plurality of input receive modules ("intermediate communication channels"; For example see Fig. 3), the trigger subsystem interrogates the log file when the input message is available for delivery to the transaction processing system for process ("enable the transactional system"); where the control records stored in the log file database are created, updated or deleted ("perform transactional operations on data stored in logging service") based on the status or flag for the logging service, e.g. "logging service", via other subsystems such as status subsystem, acknowledgement subsystem, monitor subsystem, communications monitor subsystem, and communications subsystem under the control of the transaction processing system. Gilbert does disclose about the input receive process initializes the input field message, validates and provides with confirming or aborting message such as ABORT, CONFIRM, ISSUERROR ("validating the operation in the logging service"; For example see Fig. 4; col. 16, lines 3-15; col. 17, lines 28-44; col. 27, lines 4-19) and tries to recover the non-recoverable error with number of retries (For example see col. 27, lines 20-26); and tries to recover the non-recoverable error with number of retries (For example see col. 27, lines 20-26); but fails to explicitly teach the "enable recovery of validated transactional operations". However, such implementation is known in the art.

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For example, **Ngai** discloses the validated transactional operations are stored as redo entries and instance recovery operation is restored for instance failure, e.g. recovery after a crash from redo log, with 'rolling back' the transaction ("enable recovery of validated transactional operations"; For example see Figs. 5 and 6; col. 6, lines 25-67; col. 7, lines 1-67; col. 8, lines 1-16) to resolve pending distributed transactions that were undergoing a two-phase commit coordinated by the database at the time of the instance failure.

Thus it would have been obvious to the person of ordinary skill in the art at the time of the invention was made to combine the invention as taught by **Ngai** in the **Gilbert**'s transaction processing system, by implementing the 'rollback' command in the **Gilbert**'s messages, with the motivation being to improve the ability to undoing the changes or recovering the instance failure on the database, e.g. "enable recovery of validated transactional operations", as disclosed in col. 2; lines 50-60.

- Regarding claim 5, **Gilbert** further discloses about the confirming or aborting message ("confirm or cancel modifications to logged data"; For example see Figs.1, 4; Abstract; col. 2, line 65 through col. 3, line 20; col. 12, lines 27-31; col. 17, lines 28-44) to the communications log service (For example see Figs. 1, 3); wherein, it is obvious that the "successive values of the variable" will be stored in the log service with the 'CONFIRM' message; wherein, it is obvious that the 'unchanged values' will retain as "old values", or "retains old values" with the 'ABORT' message.

Response to Arguments

6. Applicant's arguments filed on November 23rd, 2004 have been fully considered but they are not persuasive.

In response to Applicant's argument for claims 1-3 that the references fail to show certain features as described in an exemplary embodiment of the Applicant's invention, on page 4 of the specification such as "the RO or XA interface enables the external transaction monitor to confirm or cancel modifications to logged data and recover data" or in the first full paragraph in page 4 of the specification, wherein Ngai teaches a method contrary to the present invention. It is noted that, wherein the feature upon which Applicant relies (i.e., confirm or cancel modifications), is not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir.1993).

In regard to claim 1, Applicant argues that Gilbert fails to disclose the "RO or XA interface enables the external transaction monitor to confirm or cancel modifications to logged data and recover data". Examiner respectfully disagrees. Gilbert does disclose the input receive modules within the input receive subsystem of the interface system are employed to interface to multiple external applications for receiving input messages (For example see Fig. 1; col. 9, lines 33-44); wherein the communications monitor subsystem monitors (For example see Figs. 1, 8) records and manages multiple occurrences of the outbound communication process (For example see Figs. 14-16, 8; col. 8; lines 59-65; col. 11, lines 35-45) and provides the confirming or

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aborting message ("confirm or cancel modifications to logged data"; For example see Figs.1, 4; Abstract; col. 2, line 65 through col. 3, line 20; col. 12, lines 27-31; col. 17, lines 28-44) to the communications log service (For example see Figs. 1, 3). Therefore, Examiner concludes that Gilbert teaches the arguable features.

Regarding claim 3, Applicant argues that claim 3 should deemed patentable for the reasons set forth with respect to claim 1, with the argument as Gilbert fails to disclose the elements of claim 3. Examiner respectfully disagrees. Gilbert does disclose about the input receive process initializes the input field message, validates and provides with confirming or aborting message such as ABORT, CONFIRM, ISSUERROR ("validating the operation in the logging service"; For example see Fig. 4; col. 16, lines 3-15; col. 17, lines 28-44; col. 27, lines 4-19) and tries to recover the non-recoverable error with number of retries (For example see col. 27, lines 20-26); but fails to explicitly teach the "enable recovery of validated transactional operations". Ngai discloses the validated transactional operations are stored as redo entries and instance recovery operation is restored for instance failure, e.g. recovery after a crash from redo log, with 'rolling back' the transaction ("enable recovery of validated transactional operations"; For example see Figs. 5 and 6; col. 6, lines 25-67; col. 7, lines 1-67; col. 8, lines 1-16) to resolve pending distributed transactions that were undergoing a two-phase commit coordinated by the database at the time of the instance failure. Thus it would have been obvious to the person of ordinary skill in the art at the time of the invention was made to combine the invention as taught by Ngai in the Gilbert's transaction processing system, by implementing the 'rollback' command in the Gilbert's messages, with the motivation being to improve the ability to undoing Art Unit: 2661

the changes or recovering the instance failure on the database, e.g. "enable recovery of validated transactional operations", as disclosed in col. 2; lines 50-60. Therefore, Examiner concludes that Ngai does not teach a "contrary method" to the present invention and the combination of Gilbert and Ngai teaches the arguable features.

Claim 2 is rejected as in Part 3 above of this Office action and by virtue of their dependence from claim 1.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Schaefer et al. (U.S.6,157,927), Pardon et al. (U.S.6,671,686), Chorn, Thomas J. (U.S.6,275,843), J Liang et al. (Object Management Group object transaction service based on an X/Open and International Organization for Standardization open systems interconnection transaction processing kernel, The British Computer Society, 967-1846/97, pages 151-159) and Sherman, Mark (Architecture of the Encina Distributed Transaction Processing Family, Transarc Corporation, 1993 ACM 0-89791-592-5/93/0005/0460, pages 460-463) are all cited to show devices and methods for improving the management database for transaction processing system in the communication architectures, which are considered pertinent to the claimed invention.

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8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tri H. Phan, whose telephone number is (703) 305-7444. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on (571) 272-3126.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office, whose telephone number is (703) 305-3900.

BRIAN NGUYEN PRIMARY EXAMINER

Tri H. Phan April 19, 2005